

1 Department of Administration

2

3 Adopted Permanent Rules Relating to Minnesota State Building

4 Code

5

6 Rules as Adopted

7

ELEVATORS AND RELATED DEVICES

8 1305.5100 AMENDMENT OF UBC CHAPTER 51.

9 UBC chapter 51 is replaced in its entirety by parts

10 1305.5101 to 1305.5118.

11 1305.5101 PURPOSE.

12 Sec. 5101. The provisions of parts 1305.5101 to 1305.5118
13 are to safeguard life, limb, property, and public welfare by
14 establishing minimum requirements relating to the design,
15 construction, installation, alteration and repair, and operation
16 and maintenance of passenger elevators, freight elevators,
17 handpowered elevators, dumbwaiters, escalators, moving walks,
18 temporary hoists, stage and orchestra lifts, endless belt lifts,
19 wheelchair platform lifts, and other related devices.

20 1305.5102 SCOPE.

21 Sec. 5102. Parts 1305.5101 to 1305.5118 apply to new and
22 existing installations of elevators and related devices,
23 requiring permits therefore and providing for the inspection and
24 maintenance of the conveyances. The requirements for the
25 enforcement of these provisions are established by this chapter.

26 ANSI/ASME A17.1, Part XXI, is the administrative
27 responsibility of the municipal building official and a
28 legislative statute exempts the Department of Labor and Industry
29 from the enforcement of these regulations in owner-occupied
30 buildings of no more than four dwelling units.

31 1305.5103 ANSI CODE ADOPTED BY REFERENCE.

32 Sec. 5103. Subpart 1. Incorporation by reference. The
33 American National Standard Safety Code for Elevators and
34 Escalators adopted by the American National Standards Institute

1 and the American Society of Mechanical Engineers (ANSI/ASME)
2 A17.1-1987, together with supplement A 17.1a-1988 and ANSI
3 A17.3-1986, as published by the American Society of Mechanical
4 Engineers, United Engineering Center, 345 East 47th Street, New
5 York, New York 10017, is incorporated by reference and made a
6 part of this code except as qualified or amended in this
7 chapter. These standards are not subject to frequent change and
8 are available in the office of the commissioner of
9 administration.

10 Subp. 2. Exceptions to ANSI.

11 A. Winding drum machines are not permitted on new
12 elevator installations or replacements on existing installations.

13 B. Horizontal swing doors of single-section or
14 center-opening two-section design are not permitted on new
15 elevator installations or as replacements on existing
16 installations, except the administrative authority may approve
17 their installation if the conditions make it impossible to
18 install other kinds of doors.

19 C. Side emergency exits on elevator cars are not
20 permitted.

21 D. Operating devices must be of the enclosed electric
22 type. Rope- or rod-operated devices activated by hand, or
23 rope-operating devices activated by wheels, levers, or cranks,
24 must be removed. This is not considered a material change.

25 1305.5104 DEFINITIONS.

26 Sec. 5104. (a) "ANSI Code" means the ANSI/ASME A17.1
27 Code-1987, with supplement A17.1a-1988 and ANSI A17.3-1986,
28 Safety Code for Elevators and Escalators, an American National
29 Standard published by the American Society of Mechanical
30 Engineers.

31 (b) "Authority Having Jurisdiction" means the building code
32 enforcement agency of local government for areas where the code
33 is enforced by a local government or the Department of Labor and
34 Industry in areas outside the enforcement sphere of local
35 government.

1 (c) "Existing installation" means one for which, before the
2 effective date of this code:

- 3 1) all work of installation was completed; or
4 2) the plans and specifications were filed with the
5 enforcing authority and work was begun not later than 12 months
6 after approval of the plans and specifications.

7 1305.5105 PERMITS.

8 Sec. 5105. (a) Permits Required. It is unlawful for any
9 person, firm, or corporation to hereafter install any new
10 passenger elevators, freight elevators, handpowered elevators,
11 moving walks, escalators, dumbwaiters, wheelchair platform
12 lifts, endless belt lifts, or any other related device, or make
13 major alterations to any existing passenger elevators, moving
14 walks, escalators, dumbwaiters, wheelchair platform lifts,
15 endless belt lifts, or any other related device without having
16 first obtained a permit for the work from the authority having
17 jurisdiction. Alterations, modifications, and practical
18 difficulties will be done in keeping with the rules of the
19 Department of Labor and Industry.

20 Exception: A Certificate of Operation will not be required
21 for a conveyance installed within a dwelling unit for the
22 singular use of the occupant of the dwelling unit.

23 (b) Application for Permit. Application for a permit to
24 install or repair must be made on forms provided by the
25 authority having jurisdiction.

26 (c) Plans and Specifications. Plans and specifications
27 describing the extent of the work involved must be submitted
28 with the application for a permit. The authority having
29 jurisdiction may require that such plans and specifications be
30 prepared by an architect or engineer licensed to practice in
31 Minnesota. A permit will be issued to the applicant when the
32 plans and specifications have been approved and the appropriate
33 permit fee specified in this code has been paid by the applicant.

34 (d) Certificate of Operation Required. It is unlawful to
35 operate an elevator, dumbwaiter, escalator, moving walk, or

1 related device without a current Certificate of Operation issued
2 by the authority having jurisdiction. The certificate will be
3 issued upon payment of prescribed fees and the presentation of a
4 valid inspection report indicating that the conveyance is safe
5 and that the inspections and tests have been performed in
6 accordance with Part X of the ANSI code. A certificate will not
7 be issued when the conveyance is posted as unsafe.

8 (e) Application for Certificate of Operation. Application
9 for a certificate of operation must be made by the owner, or an
10 authorized representative, for an elevator, dumbwaiter,
11 escalator, moving walk, or other related device. The
12 application must be accompanied by an inspection report. Fees
13 for the Certificate of Operation must be as specified by the
14 administrative authority.

15 (f) Fees. Fees for the installation, alteration, or repair
16 of devices covered in this section are as set forth in the fee
17 schedule adopted by the jurisdiction or in the cases under
18 permit issuance by the Department of Labor and Industry will be
19 as established by the Department of Labor and Industry. A
20 recommended fee schedule structure is located in UBC Appendix
21 Chapter 51.

22 1305.5106 INSPECTION, TESTS, AND APPROVALS.

23 Sec. 5106. (a) Approval of plans. Any person, firm, or
24 corporation desiring to install, relocate, alter materially, or
25 extend any installation covered by this chapter must be required
26 to obtain approval for doing so from the authority having
27 jurisdiction. Two sets of drawings and specifications showing
28 the installation, relocation, alteration, or extension must be
29 submitted for approval.

30 (b) Inspections and tests. It is unlawful for any person,
31 firm, or corporation to put into service any installation
32 covered by parts 1305.5101 to 1305.5118 whether the installation
33 is newly installed, relocated, or altered materially without the
34 installation being inspected and approved by the authority
35 having jurisdiction. The installer of any equipment included in

1 this chapter must notify in writing the authority having
2 jurisdiction seven days before completion of the installation
3 for inspection. The authority having jurisdiction may require
4 tests as described in ANSI A17.1-1987 Edition and supplement
5 ANSI A17.1a-1988 and ANSI A17.3-1986 to prove the safe operation
6 of the installation.

7 (c) Approval. A certificate or letter of approval must be
8 issued by the authority having jurisdiction for the installation
9 when the entire installation is completed in conformity with
10 this code. The installation must include all enclosures or
11 shafts, gates, doors, machinery safety and control devices, and
12 all other appurtenances necessary.

13 (d) Limited use of an elevator. When a building or
14 structure is to be equipped with one or more elevators, at least
15 one of the elevators may be approved for limited use before
16 completion of the building or structure. The use of the
17 elevator may be permitted by the authority having jurisdiction
18 under the authority of a limited permit issued for each class of
19 service. The limited permit must specify the class of service
20 permitted and it must not be issued until the elevator has been
21 tested with a rated load and the car safety and terminal
22 stopping equipment have been tested to determine the safety of
23 the equipment. Permanent enclosures must be in place on the car
24 and around the hoistway and at the landing entrance on each
25 floor.

26 1305.5107 ACCIDENTS.

27 Sec. 5107. (a) To be reported. The owner or person in
28 control of an elevator or other installation covered by this
29 code must promptly notify the authority having jurisdiction of
30 any accident to a person or apparatus on, about, or in
31 connection with an elevator or other installation, and must
32 afford the authority having jurisdiction every facility for
33 investigating the accident and the resultant damage.
34 Notification may be given to the authority having jurisdiction
35 by telephone or verbally. The notification must also be

1 confirmed in writing.

2 (b) Investigation. The authority having jurisdiction must
3 make or cause to be made an investigation of the accident, and
4 the report of the investigation must be placed on file in its
5 office. The report must give in detail the cause or causes, so
6 far as can be determined, and the report must be available for
7 public inspection.

8 (c) Operation discontinued. When an accident involves the
9 failure or destruction of a part of the installation or the
10 operating mechanism, the elevator or other installation must be
11 taken out of service and must not be used again until it has
12 been made safe and the reuse approved by the authority having
13 jurisdiction. The authority having jurisdiction may, when
14 necessary, order the discontinuance of operation of any such
15 elevator or installation until a new certificate of operation
16 has been issued.

17 (d) Removal of parts restricted. No part of the damaged
18 installation, construction, or operating mechanism must be
19 removed from the premises until permission is granted by the
20 authority having jurisdiction.

21 1305.5108 DESIGN; SPECIAL PROVISIONS.

22 Sec. 5108. For detailed design, construction, and
23 installation requirements, see UBC Chapter 23 and the
24 appropriate requirements of the ANSI Code as well as the special
25 provisions cited in this code.

26 (a) Number of Cars in Hoistway. When there are three or
27 fewer elevator cars in a building, they may be located within
28 the same hoistway enclosure. When there are four elevator cars,
29 they must be divided in such a manner that at least two separate
30 hoistway enclosures are provided. When there are more than four
31 elevators, not more than four elevator cars may be located
32 within a single hoistway enclosure.

33 (b) Elevator Lobby Enclosures. Elevator lobby enclosures,
34 when required, must comply with UBC Section 1807(h). When an
35 elevator lobby enclosure is not required, an area of the ceiling

1 area of the corridor outside the elevator shaft opening(s) must
2 be provided with a draft curtain of glass set in metal frames or
3 construction complying with the construction type of the
4 building to provide an area for the control of the products of
5 combustion.

6 (c) Door Operation. Each elevator lobby or entrance must
7 be provided with an approved smoke detector. The operation of
8 such detectors may be set at the maximum sensitivity.

9 (d) Standby Power. Standby power when required by UBC
10 Section 1807 must be capable of providing power to all elevators
11 necessary to serve all floors of the building. Standby power
12 must be manually transferable to all elevators in each bank.

13 Standby power must be provided by an approved
14 self-contained generator set to operate automatically whenever
15 there is a loss of electrical power to the building. The
16 generator set must be located in a separate room enclosed by at
17 least a one-hour fire-resistive occupancy separation. The
18 generator must have a fuel supply adequate to operate the
19 equipment connected to it for a minimum of two hours.

20 Note: A bank of elevators is a group of elevators or a
21 single elevator controlled by a common operating system; that
22 is, all those elevators which respond to a single call button
23 constitute a bank of elevators. There is no limit to the number
24 of cars which may be in a bank or group, but there may be not
25 more than four cars within a common hoistway.

26 (e) Size of Cab and Control Location. When required by
27 chapter 1340, all floors of buildings served by an elevator or
28 elevators must be of a size that will accommodate a wheelchair,
29 as follows:

30 1. Operation and leveling. Elevator operation must be
31 automatic. Each car must be equipped with a self-leveling
32 feature that will automatically bring to the floor landings
33 within a tolerance of one-half inch under normal loading and
34 unloading conditions. The self-leveling feature must be
35 entirely automatic and independent of the operating device and
36 must correct the overtravel or undertravel. The car must also

1 be maintained approximately level with the landing, irrespective
2 of load.

3 2. Door operation. Power-operated horizontally sliding
4 car and hoistway doors opened and closed by automatic means must
5 be provided.

6 3. Door size. Minimum clear width for elevator doors must
7 be 36 inches.

8 Exception: When approved by the authority having
9 jurisdiction, the minimum door width may be reduced to 32 inches
10 for cars with dimensions as permitted by the exception to ~~UBE~~
11 Section ~~5107(e)~~ 5108(e) 6.

12 4. Door protective and reopening device. The reopening
13 device must be capable of sensing an object or person in the
14 path of a closing door without requiring contact for activation
15 at a nominal five inches and 29 inches above the floor. Door
16 reopening devices must remain effective for a period of not less
17 than 20 seconds.

18 5. Door delay (passenger service time).

19 A. Hall call. The minimum acceptable time from
20 notification that a car is answering a call (lantern and audible
21 signal) until the doors of that car start to close must be as
22 indicated in the following table:

23 DISTANCE	TIME
24 (in feet)	
25 0 to 5	4 seconds
26 10	7 seconds
27 15	10 seconds
28 20	13 seconds

29
30 The distance must be established from a point in the center
31 of the corridor or lobby (maximum five feet) directly opposite
32 the farthest hall button to the center line of the hoistway
33 entrance.

34 B. Car call. The minimum acceptable time for doors to
35 remain fully open must be not less than three seconds.

36 6. Car inside. The car inside must allow the turning of a
37 wheelchair. The minimum clear distance between walls or between
38 wall and door, excluding return panels, must be not less than 68
39 inches by 54 inches. Minimum distance from wall to return panel

1 must be not less than 51 inches.

2 Exception: When approved by the authority having
3 jurisdiction, existing elevators provided in schools,
4 institutions, or other buildings may have a minimum clear
5 distance between walls or between wall and door, excluding
6 return panels, of not less than 54 inches by 54 inches. Minimum
7 distance from wall to return panel must be not less than 51
8 inches.

9 7. Car controls. Controls must be readily accessible from
10 a wheelchair upon entering an elevator. The center line of the
11 alarm button must be at a nominal 35 inches, and the highest
12 floor button no higher than 54 inches from the floor. Floor
13 registration buttons, exclusive of border, must be a minimum
14 three-fourths inch in size, raised, flush, or recessed. Visual
15 indication must be provided to show each call registered and
16 extinguished when call is answered. Depth of flush or recessed
17 buttons when operated must not exceed three-eighths inch.
18 Markings must be adjacent to the controls on a contrasting color
19 background to the left of the controls. Letters or numbers must
20 be a minimum of five-eighths inch high and raised or recessed
21 0.030 inch. Applied plates permanently attached are acceptable.
22 Emergency controls must be grouped together at the bottom of the
23 control panel. Controls not essential to the automatic
24 operation of the elevator may be located as convenient.

25 8. Car position indicator and signal. A car position
26 indicator must be provided above the car operating panel or over
27 the opening of each car to show the position of the car in the
28 hoistway by illumination of the indication corresponding to the
29 landing at which the car is stopped or passing. Indications
30 must be on a contrasting color background and a minimum of
31 one-half inch in height. In addition, an audible signal must
32 sound to tell a passenger that the car is stopping or passing a
33 floor served by the elevator. A special button located with
34 emergency controls may be provided. Operation of the button
35 will activate an audible signal only for the desired trip.

36 9. Telephone or intercommunicating system. A means of

1 two-way communication must be provided between the elevator and
2 a point outside the hoistway connected to an approved emergency
3 service which operates on a 24-hour daily basis. If a telephone
4 or other communicating device is provided, it must be located a
5 maximum of 54 inches from the floor to the dial or key pad on
6 the phone or other operating device, with a minimum receiver
7 cord length of 29 inches. Markings or the international symbol
8 for telephones must be adjacent to the control on a contrasting
9 color background. Letters or numbers must be a minimum of
10 five-eighths inch high and raised or recessed 0.030 inch.
11 Applied plates permanently attached are acceptable.

12 10. Floor covering. Floor covering must have a nonslip
13 hard surface which permits easy movement of wheelchairs. If
14 carpeting is used, it must be securely attached, heavy duty,
15 with a tight weave and low pile, installed without padding.

16 11. Handrails. A handrail must be provided on at least
17 one wall of the car, preferably the rear. The handrails must be
18 smooth, a maximum diameter of 1-1/2 inches and the inside edge
19 of the handrail surface located at least 1-1/2 inches clear of
20 the walls mounted at a height of 32 inches from the floor.

21 Note: 32 inches is required to reduce interference with
22 car controls where lowest button is centered at 35 inches above
23 the floor.

24 12. Minimum illumination. The minimum illumination at the
25 car controls and the landing when the car and landing doors are
26 open must be not less than five footcandles.

27 13. Hall buttons. The center line of the hall call
28 buttons must be a nominal 42 inches above the floor. Direction
29 buttons, exclusive of border, shall be a minimum of
30 three-fourths inch in size, raised, flush, or recessed. Visual
31 indication must be provided to show each call registered and
32 extinguished when the call is answered. Depth of flush or
33 recessed button when operated must not exceed three-eighths inch.

34 14. Hall lantern. A visual and audible signal must be
35 provided at each hoistway entrance indicating to the prospective
36 passenger the car answering the call and its direction of

1 travel. The visual signal for each direction must be a minimum
2 of 2-1/2 inches in size and visible from the proximity of the
3 hall call button. The audible signal must sound once for the up
4 direction and twice for the down direction. The center line of
5 the fixture must be located a minimum of six feet from the floor.
6 The use of in-car lanterns conforming to above and located in
7 the jamb are acceptable.

8 15. Door jamb marking. The floor designation must be
9 provided at each hoistway entrance on both sides of the jamb
10 visible from within the car and the elevator lobby centered at a
11 height of 60 inches above the floor. Designations must be on a
12 contrasting background two inches high and raised 0.030 inch.
13 Applied plates permanently attached are acceptable.

14 (f) Stretcher requirements. In buildings with elevators
15 requiring Phase I and II operation, at least one elevator must
16 be provided with a minimum clear distance between walls or
17 between walls and door excluding return panels, not less than 80
18 inches by 54 inches, and a minimum distance from wall to return
19 panel not less than 51 inches with a 42-inch side slide door,
20 unless otherwise designed to accommodate an ambulance-type
21 stretcher 76 inches by 24 inches in the horizontal position. In
22 buildings where one elevator does not serve all floors, two or
23 more elevators may be used.

24 (g) Emergency signs. Except at the main entrance level, an
25 approved pictorial sign of a standard design must be posted
26 adjacent to each elevator call station which will indicate that,
27 in case of fire, the elevator will not operate and that exits
28 should be used.

29 (h) Restricted or limited-use elevators. The authority
30 having jurisdiction may waive the requirements of this section
31 for any elevator designed for limited or restricted use serving
32 only specific floors or a specific function.

33 1305.5109 ELEVATOR AND DUMBWAITER HOISTWAY ENCLOSURES.

34 Sec. 5109. (a) Walls and partitions enclosing elevator and
35 dumbwaiter shafts and escalator shafts must be constructed with

1 materials not less than the fire-resistive construction required
2 under Type of Construction in Part IV of the Uniform Building
3 Code.

4 (b) Partitions between fire-resistive hoistways and machine
5 rooms having fire-resistive enclosures and which are located at
6 a side of or beneath the hoistway may be of unperforated
7 noncombustible material at least equal to 0.0598 inch thick
8 sheet steel in strength and stiffness with openings essential
9 for ropes, drums, sheaves, and other elevator equipment.

10 (c) All hoistway openings must be provided with
11 fire-resistive protective assemblies. The fire resistance
12 rating must not be less than 1-1/2 hours when installed in two
13 hour fire-resistance-rated construction. Protective assemblies
14 installed in fire-resistance-rated construction of less than two
15 hours must have ratings required by the Uniform Building Code.
16 The fire-resistance rating must be determined by the test
17 specified in Part XI, Rule 1102 of ANSI/ASME A17.1-1987.

18 1305.5110 HOISTWAY VENTING.

19 Sec. 5110. (a) Shafts (hoistways) housing elevators
20 extending through more than two floor levels shall be vented to
21 the outside. The area of the vent shall be not less than 3-1/2
22 percent of the area of the elevator shaft, provided a minimum of
23 three square feet per elevator is provided.

24 The venting of each individual hoistway must be independent
25 from any other hoistway venting, and the interconnection of
26 separate hoistways for the purpose of venting is prohibited.
27 Vents must be manually openable or remote control automatic
28 vents. Location of operating devices is subject to approval of
29 the authority having jurisdiction. Vents must be located in the
30 side of the hoistway enclosure directly below the floor or
31 floors at the top of the hoistway, and must open either directly
32 to the outer air or through noncombustible ducts to the outer
33 air; or in the wall or roof of the penthouse or overhead
34 machinery space above the roof when the openings have a total
35 area not less than the minimum specified in this section. Vents

1 passing through machine rooms must be in noncombustible ducts.
2 When a vent is installed in the roof of the hoistway, a
3 protective grille must be provided to prevent persons from
4 falling into the hoistway.

5 (b) If air pressurization of a hoistway is used as a means
6 of smoke and hot gas control, the air must not be introduced
7 into the hoistway in such a manner as to cause erratic operation
8 by impingement of traveling cables, selector tapes, governor
9 ropes, compensating ropes, and other components sensitive to
10 excessive movement or deflection.

11 1305.5111 ELEVATOR MACHINE ROOM FLOORS.

12 Sec. 5111. Elevator hoistways must not be vented through
13 an elevator machine room unless such venting is accomplished by
14 an approved duct system installed through the elevator machine
15 room.

16 1305.5112 AMENDMENTS TO ANSI A17.1-1987.

17 ANSI A17.1 Rule 102.2 is amended to read as follows:

18 (c) (6) When approved by the fire chief, automatic
19 disconnect of the main power supply is not required if
20 sprinklers are located in the machine or equipment room only;
21 the elevator is equipped with Phase I emergency recall (see
22 Section 211); and the sprinkler heads are of the cycling
23 sprinkler (on-off) type.

24 NOTE 1: This does not limit the use of shields and baffles.

25 NOTE 2: This alternative does not apply if the hoistway is
26 provided with sprinkler protection.

27 ANSI A17.1 Rule 112.5 is amended to read as follows:

28 Where required by Rule 112.3d or Rule 112.4, a
29 power-operated car door or gate must be provided with a
30 reopening device which will function to stop and reopen a car
31 door or gate and the adjacent hoistway door in the event that
32 the car door or gate is obstructed while closing. If the
33 closing kinetic energy is reduced to 2-1/2 foot-pounds or less,
34 the reopening device may be rendered inoperative (see Rule
35 112.4-a).

1 For center-opening doors, the reopening device must be so
2 designed and installed that the obstruction of either door panel
3 when closing will cause the reopening device to function.

4 Doors on all passenger elevators must not be solely
5 dependent upon the door edge reopening device for protection
6 from the doors closing on an obstruction, but must also be
7 provided with an approved light beam or electronic door
8 protection device. Doors closed by automatic means must be
9 provided with a door reopening device which will function to
10 stop and reopen the car door and adjacent hoistway door in case
11 the car is obstructed while closing. For vertically sliding
12 doors or gates, reopening devices must respond to any
13 obstruction within the width of the opening to a point five
14 inches maximum from each side of the opening.

15 ANSI A17.1 Rule 211.3d is amended to read as follows:

16 On emergency elevators all keyed switches installed to
17 operate the elevator or emergency service must be keyed alike to
18 a pattern approved by the authority having jurisdiction. In
19 lieu of the above, keys for emergency elevator service may be in
20 a metal box placed in a location approved by the authority
21 ~~having jurisdiction, if the box is locked with a five-pin~~
22 ~~tumbler-core-lock-or-equivalent-which-is-keyed-to-the-same~~
23 pattern fire chief. The box must be locked with a key approved
24 by the fire chief.

25 ANSI A17.1 Rule 602.1 is amended by adding a fourth
26 paragraph to read as follows:

27 All handpowered elevators must be equipped with a broken
28 rope safety device.

29 ANSI A17.1 Rule 703.1 is amended by adding a second
30 paragraph to read as follows:

31 All dumbwaiters must be equipped with a broken rope safety
32 device.

33 ANSI A17.1a-1988 Rule 902.4a Handrails, is amended as
34 follows:

35 902.4a Type Required. Each balustrade must be provided
36 with a handrail moving in the same direction and at

1 substantially the same speed as the treadway. A stopped
2 handrail device must be provided that will cause the immediate
3 activation of the alarm required by Rule 805.1b and, after not
4 more than 15 seconds interruption of power to the driving
5 machine motor and brake.

6 ANSI A17.1a-1988 Rule 905.1d Broken Treadway Device is
7 amended as follows:

8 ANSI A17.1a-1988 Rule 905.1d Broken Treadway Device. A
9 device must be provided which will cause interruption of power
10 to the driving machine and brake if the connecting means between
11 pallets or the belt breaks. Pallet type moving walks must be
12 provided with a device which will cause interruption of power to
13 the driving machine when a displaced or lost pallet is
14 detected. Interruption of power must occur prior to the
15 displaced or lost pallet entering the passenger walkway area.

16 ANSI A17.1 Rule 2000 is amended by adding the following
17 language:

18 1305.5113 INCLINED AND VERTICAL WHEELCHAIR LIFTS. This
19 part applies to vertical wheelchair lifts (ANSI Section 2000),
20 and inclined wheelchair lifts (ANSI Section 2001), installed in
21 buildings other than in or at a private residence for use by the
22 physically handicapped. Wheelchair lifts do not meet the
23 accessibility requirements contained in chapter 1340. See ANSI
24 A17.1, Part XXI for the requirements for this equipment
25 installed in or at a private residence.

26 The wheelchair lifts must not be exposed to the outside
27 elements. Testing, tests, and inspections must be made in
28 accordance with the applicable provisions of part 1305.5117.

29 ANSI A17.1 Rule 2000.6D is amended to read as follows:

30 Car and platform illumination lighting must comply with
31 rule 204.7.

32 ANSI A17.1 Rule 2001.1a is amended to read as follows:

33 Rule 2001.1a Means of egress. Lifts must be installed so
34 that the means of egress is maintained as required by the
35 authority having jurisdiction.

36 When installed at ramps or stairs, the lift must be

1 separated from the ramp or stair by a solid guard rail not less
2 than 42 inches in height. Handrails complying with the
3 requirements of the UBC Section 3306(j) must be provided on the
4 ramp or stairway side of the guardrail, except as provided by
5 Minnesota Statutes, section 16B.61, subdivision 5, paragraph (g).

6 ANSI A17.1 Rule 2001.6f is amended to read as follows:

7 Platform illumination lighting must comply with rule 204.7.

8 ANSI A17.1 Rule 2002 is deleted in its entirety.

9 1305.5114 STAGE AND ORCHESTRA LIFTS.

10 Stage and orchestra lifts must be designed, installed,
11 constructed, and maintained so as to be reasonably safe to life,
12 limb, and adjoining property and must be reviewed by the
13 authority having jurisdiction prior to installation or
14 construction.

15 1305.5115 ENDLESS BELT LIFTS.

16 Endless belt lifts must be designed, installed,
17 constructed, and maintained so as to be reasonably safe to life,
18 limb, and adjoining property and must conform to the rules of
19 the Department of Labor and Industry, parts 5205.0550 to
20 5205.0590.

21 1305.5116 TEMPORARY INTERIOR AND EXTERIOR HOISTS.

22 Temporary interior and exterior hoists must be designed,
23 constructed, installed, and maintained so as to be reasonably
24 safe to life, limb, and adjoining property and must conform to
25 Safety Requirements for Workman's Hoists, ANSI 10.4-1963, Safety
26 Requirements for Material Hoists, ANSI 10.5-1969, and rules of
27 the Department of Labor and Industry.

28 1305.5117 MECHANICAL PARKING GARAGE EQUIPMENT.

29 Mechanized parking garage equipment must be designed,
30 constructed, installed, and maintained so as to be reasonably
31 safe to life, limb, and adjoining property and must conform to
32 the standards specified in the American Standard Safety Code for
33 Mechanized Parking Garage Equipment, ANSI A113.1 (R-1971).

1 1305.5118 EXISTING INSTALLATIONS.

2 (a) Conditions for continued operation. All existing
3 installations may be continued in service as long as they are
4 properly maintained and are, in the opinion of the authority
5 having jurisdiction, installed and maintained in a safe
6 condition. The authority having jurisdiction may order the
7 installation of car gates, car tops, and car walls extended to
8 the car top on all existing installations. The authority having
9 jurisdiction must have the authority to shut down any piece of
10 equipment covered by this chapter, which in the opinion of the
11 authority having jurisdiction, is dangerous to life, limb, and
12 adjoining property, and the equipment must not be put back into
13 operation until the unsafe condition has been corrected and
14 approved by the authority having jurisdiction.

15 (b) Damaged installations. Any installation, whether new
16 or existing, which becomes damaged, defective, or worn, by fire
17 or other causes including ordinary wear to such extent that in
18 the opinion of the authority having jurisdiction it is dangerous
19 to life, limb, and adjoining property, such installations must
20 be repaired or rebuilt in conformity with this code. The
21 equipment must, if in the opinion of the authority having
22 jurisdiction, it is found necessary to protect life, limb, and
23 property, be taken out of service until the unsafe condition has
24 been removed. An installation that is materially changed after
25 the enactment of this code must comply with all of the
26 requirements covering a new installation. "Material change"
27 means a change that moves the location, increases or decreases
28 the length of travel, changes the type of operation, increases
29 the speed or carrying capacity, or changes the types of power
30 supply of an existing installation.

31 (c) Unsafe conditions. When an inspection reveals an
32 unsafe condition, the inspector must immediately file with the
33 owner and the authority having jurisdiction a full and true
34 report of the inspection and the unsafe condition. If the
35 administrative authorities' agent finds that the unsafe
36 condition endangers human life, limb, and property, the

1 inspector shall place a notice, in a conspicuous location, on
2 the elevator, escalator, or moving walk that the conveyance is
3 unsafe. The owner shall see to it that the notice of unsafe
4 condition is legibly maintained where placed by the authority
5 having jurisdiction. The authority having jurisdiction must
6 issue an order in writing to the owner requiring the repairs or
7 alterations to be made to the conveyance which are necessary to
8 render it safe, and may order the operation discontinued until
9 the repairs or alterations are made or the unsafe conditions are
10 removed. A posted notice of unsafe conditions must be removed
11 only by the authority having jurisdiction when satisfied that
12 the unsafe conditions have been corrected.

13 Compliance must be in accordance with the requirements of
14 ANSI A17.3-1986.

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16 REPEALER. Minnesota Rules, parts 1320.0100; 1320.0200;
17 1320.0300; 1320.0400; 1320.0500; 1320.0600; 1320.0605;
18 1320.0610; 1320.0615; 1320.0620; 1320.0625; 1320.0630;
19 1320.0635; 1320.0638; 1320.0640; 1320.0645; 1320.0650;
20 1320.0655; 1320.0660; 1320.0665; 1320.0670; 1320.0675;
21 1320.0680; 1320.0785; 1320.2001; 1320.2005; 1320.2010;
22 1320.2015; 1320.2020; 1320.2025; 1320.2030; 1320.2035;
23 1320.2100; 1320.2200; 1320.2300; and 1320.2400, are repealed.